

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584927

Luminaire Tested: **HC855D010-HM82555827-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555827-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5577.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

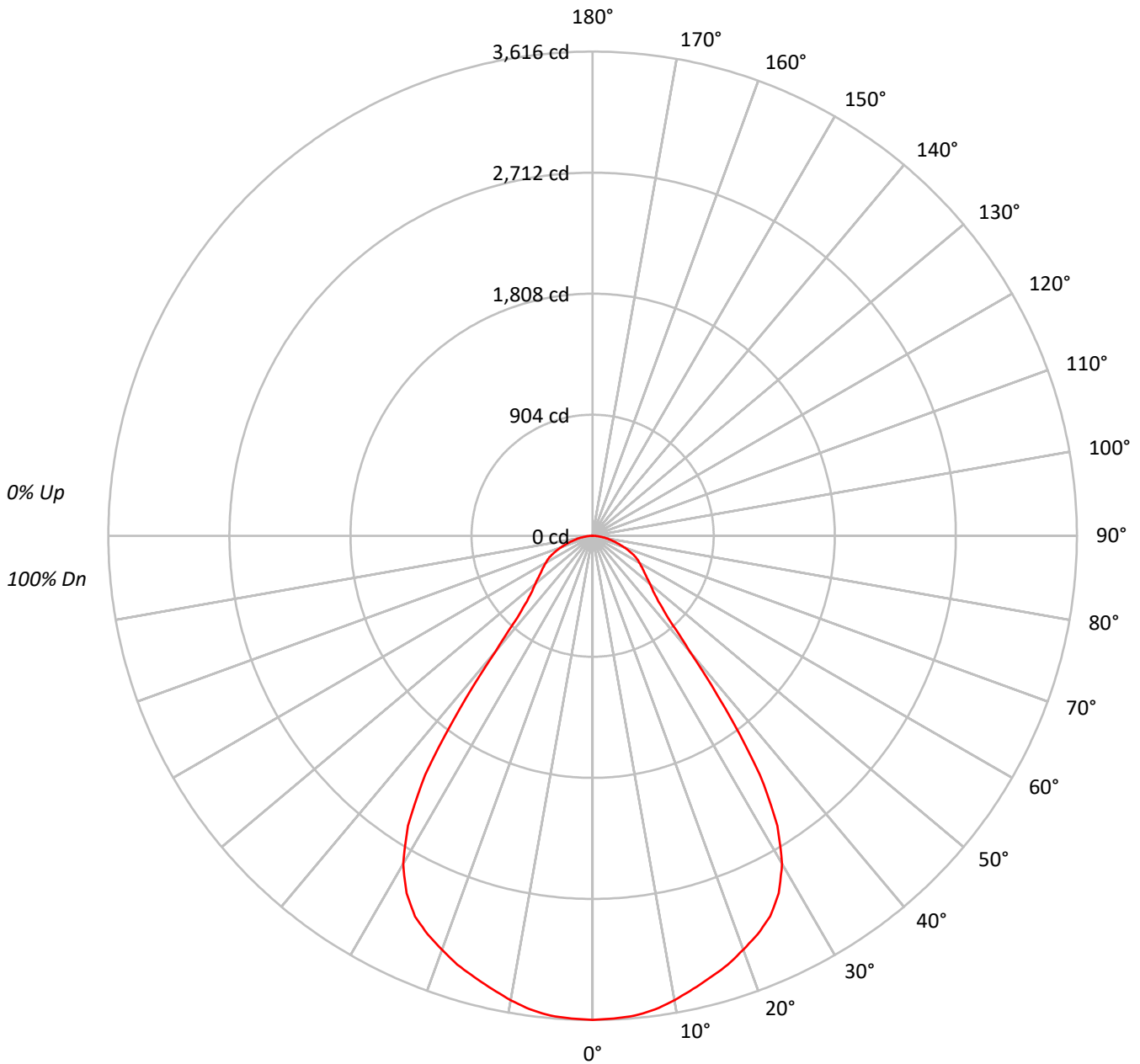
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111501
5°	111364
10°	110265
15°	108944
20°	107933
25°	106720
30°	100703
35°	82000
40°	45306
45°	30239
50°	26817
55°	25176
60°	24848
65°	24640
70°	22251
75°	19897
80°	17403
85°	15426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	6.1
10°-20°	963.6	17.3
20°-30°	1431.8	25.7
30°-40°	1289.4	23.1
40°-50°	571.6	10.2
50°-60°	423.3	7.6
60°-70°	329.2	5.9
70°-80°	178.5	3.2
80°-90°	48.9	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2736.3	49.1
0°-40°	4025.7	72.2
0°-60°	5020.6	90.0
0°-90°	5577.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5577.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3616	
5°	3598	341
15°	3413	964
25°	3137	1432
35°	2178	1289
45°	693	572
55°	468	423
65°	338	329
75°	167	178
85°	44	49
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3615.9
2.5°	3608.6
5°	3597.7
7.5°	3568.7
10°	3521.5
12.5°	3467.0
15°	3412.6
17.5°	3358.1
20°	3289.1
22.5°	3220.2
25°	3136.6
27.5°	3009.6
30°	2828.2
32.5°	2566.7
35°	2178.3
37.5°	1626.4
40°	1125.5
42.5°	831.4
45°	693.4
47.5°	613.5
50°	559.0
52.5°	508.3
55°	468.3
57.5°	435.6
60°	402.9
62.5°	374.0
65°	337.7
67.5°	294.1
70°	246.8
72.5°	207.0
75°	167.0
77.5°	130.7
80°	98.0
82.5°	69.0
85°	43.6
87.5°	18.2
90°	0.0



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— 0°-180°







(END OF REPORT)